

=> FILE REG

FILE 'REGISTRY' ENTERED AT 11:38:30 ON 03 DEC 2008
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=> DISPLAY HISTORY FULL L1-

FILE 'HCAPLUS' ENTERED AT 10:10:28 ON 03 DEC 2008

L1 3700 SEA DEANGELIS ?/AU OR DE ANGELIS ?/AU OR ANGELIS ?/AU
L2 31 SEA POLLESEL ?/AU
L3 181 SEA BELLUSSI ?/AU
L4 1645 SEA LOCKHART ?/AU
L5 0 SEA L1 AND L2 AND L3 AND L4
L6 0 SEA L2 AND L3 AND L4
L7 0 SEA L3 AND L4
L8 35423 SEA DISPOS?/TI
L9 135174 SEA SULFUR#/TI
L10 91 SEA L8 AND L9
L11 0 SEA L10 AND ((L1 OR L2 OR L3 OR L4))

FILE 'REGISTRY' ENTERED AT 10:56:26 ON 03 DEC 2008
E SULFUR/CN

L12 1 SEA SULFUR/CN
L13 238 SEA S/ELS AND 1/ELC.SUB
E HYDROGEN SULFIDE/CN
L14 1 SEA "HYDROGEN SULFIDE"/CN

FILE 'HCA' ENTERED AT 10:59:54 ON 03 DEC 2008

L15 154 SEA L12 (L) DISPOS?
L16 892 SEA L12 (L) (FIX OR FIXES OR FIXED OR FIXING# OR FIXAT?
OR REMEDIAT? OR SEQUEST? OR STORE# OR STORING# OR
STORAG?)
L17 820 SEA (SULFUR# OR SULPHUR# OR SULFER# OR SULPHER# OR
S) (2A) DISPOS?
L18 7454 SEA (SULFUR# OR SULPHUR# OR SULFER# OR SULPHER# OR
S) (2A) (FIX OR FIXES OR FIXED OR FIXING# OR FIXAT? OR
REMEIDIAT? OR SEQUEST? OR STORE# OR STORING# OR STORAG?)
L19 13 SEA (SULFUR# OR SULPHUR# OR SULFER# OR SULPHER# OR
S) (5A) (CONVERT? OR CONVERS? OR TRANSFORM? OR CHANG?) (5A) (
?SULFAN? OR ?SULPHAN?)
L20 2781 SEA L12 (L) (MOLTEN? OR MELT? OR FUSE# OR FUSING# OR
FUSION?)
L21 14422 SEA (SULFUR# OR SULPHUR# OR SULFER# OR SULPHER# OR
S) (2A) (MOLTEN? OR MELT? OR FUSE# OR FUSING# OR FUSION?)

L22 183 SEA L13 (L) DISPOS?
 L23 972 SEA L13 (L) (FIX OR FIXES OR FIXED OR FIXING# OR FIXAT?
 OR REMEDIAT? OR SEQUEST? OR STORE# OR STORING# OR
 STORAG?)
 L24 3198 SEA L13 (L) (MOLTEN? OR MELT? OR FUSE# OR FUSING# OR
 FUSION?)
 L25 111282 SEA L14 OR (HYDROGEN# OR H) (W) (SULFIDE# OR SULPHIDE#) OR
 H2S
 L26 42010 SEA ?SULFAN? OR ?SULPHAN?
 L27 1228 SEA ?SULFANE? OR ?SULPHANE?
 L28 2 SEA (L15 OR L17 OR L22) AND L26
 L29 0 SEA (L15 OR L17 OR L22) AND L27
 L30 12 SEA (L16 OR L18 OR L23) AND L26
 L31 6 SEA (L16 OR L18 OR L23) AND L27
 L32 23 SEA (L20 OR L21 OR L24) AND L26
 L33 6 SEA (L20 OR L21 OR L24) AND L27
 L34 2 SEA L32 AND L25
 L35 180564 SEA L12 OR L13
 L36 104 SEA L35 AND L25 AND L26
 L37 76 SEA L35 AND L25 AND L27
 L38 7 SEA L36 AND ((L15 OR L16 OR L17 OR L18 OR L19 OR L20 OR
 L21 OR L22 OR L23 OR L24))

FILE 'REGISTRY' ENTERED AT 11:23:31 ON 03 DEC 2008
 E CHLORINE/CN

L39 1 SEA CHLORINE/CN
 L40 218 SEA (H (L) S)/ELS (L) 2/ELC.SUB
 L41 136 SEA L40 AND 1<S
 L42 119 SEA L41 NOT (D OR T)/ELS

FILE 'HCA' ENTERED AT 11:26:00 ON 03 DEC 2008

L43 120277 SEA L39 OR CL2 OR (CHLORINE# OR CL) (2A) (GAS## OR
 GASEOUS? OR GASIF? OR ATM# OR ATMOS?)
 L44 669 SEA L42 OR H2SN+1
 L45 345 SEA L35 AND L43 AND L25
 L46 9 SEA L45 AND L44
 L47 6 SEA L45 AND L26
 L48 3 SEA L45 AND L27

FILE 'REGISTRY' ENTERED AT 11:28:04 ON 03 DEC 2008
 E SULFUR DICHLORIDE/CN

L49 1 SEA "SULFUR DICHLORIDE"/CN
 E HYDROGEN CHLORIDE/CN
 L50 1 SEA "HYDROGEN CHLORIDE"/CN

FILE 'HCA' ENTERED AT 11:29:43 ON 03 DEC 2008

L51 2757 SEA L49 OR SCL2 OR CL2S

L52 668673 SEA L50 OR HCL OR (HYDROGEN# OR H) (W) (CHLORIDE# OR
 MONOCHLORIDE#) OR (HYDROCHLORIC# OR MURIATIC?) (2A) ACID#
 L53 12 SEA L45 AND L51
 L54 157 SEA L45 AND L52
 L55 5 SEA L53 AND L54
 L56 6882 SEA (PRODUC? OR PROD# OR GENERAT? OR MANUF? OR MFR# OR
 CREAT? OR FORM## OR FORMING# OR FORMAT? OR MAKE# OR
 MADE# OR MAKING# OR FABRICAT? OR SYNTHESI? OR PREPAR? OR
 PREP#) (2A) (?SULFAN? OR ?SULPHAN?)
 L57 24 SEA L36 AND L56
 L58 22 SEA L37 AND L56
 L59 54 SEA L19 OR L28 OR L30 OR L31 OR L33 OR L34 OR L38 OR L46
 OR L47 OR L48 OR L53 OR L55
 L60 44 SEA L19 OR L28 OR L31 OR L33 OR L34 OR L38 OR L46 OR L47
 OR L48 OR L55
 L61 10 SEA (L30 OR L53) NOT L60
 L62 20 SEA (L57 OR L58) NOT (L60 OR L61)
 L63 72 SEA (L36 OR L37) NOT (L60 OR L61 OR L62)
 L64 37 SEA 1808-2003/PY,PRY,AY AND L60
 L65 10 SEA 1808-2003/PY,PRY,AY AND L61
 L66 20 SEA 1808-2003/PY,PRY,AY AND L62
 L67 67 SEA 1808-2003/PY,PRY,AY AND L63
 L68 2734 S CLAUS
 L69 1626 S L68 AND L35
 L70 4 S L69 AND (L44 OR L26)
 L71 1247 S L69 AND L25
 L72 0 S L71 AND L51
 L73 10 S L71 AND L52
 L74 1 S L71 AND L43
 L75 13 S (L70 OR L73 OR L74) NOT (L64 OR L65 OR L66 OR L67)
 L76 12 S 1808-2003/PY,PRY,AY AND L75
 L77 4202 S (L12 OR L13) (L) WAST?
 L78 9159 S WAST?(2A) (SULFUR# OR SULFER# OR SULPHUR# OR SULPHER# OR
 L79 22 S (L77 OR L78) AND L26
 L80 5 S (L77 OR L78) AND (L27 OR L44)
 L81 21 S (L79 OR L80) NOT (L76 OR L64-L67)
 L82 18 S 1808-2003/PY,PRY,AY AND L81

=> FILE HCA

FILE 'HCA' ENTERED AT 11:39:41 ON 03 DEC 2008

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=> D L64 1-37 TI

L64 ANSWER 1 OF 37 HCA COPYRIGHT 2008 ACS on STN

TI Methods and compositions for increasing the efficacy of biologically-active ingredients such as antitumor agents

L64 ANSWER 2 OF 37 HCA COPYRIGHT 2008 ACS on STN

TI Role of organic mediators in conversion of **hydrogen sulfide** and **sulfanes** to elemental sulfur

L64 ANSWER 3 OF 37 HCA COPYRIGHT 2008 ACS on STN

TI Procedure for the conversion of **polysulfane** in **hydrogen sulfide** and sulfur in gas flows resulting in **hydrogen sulfide** synthesis

L64 ANSWER 4 OF 37 HCA COPYRIGHT 2008 ACS on STN

TI Production of polymeric sulfur using a cross-linking agent

L64 ANSWER 5 OF 37 HCA COPYRIGHT 2008 ACS on STN

TI Determining priority hazardous substances related to hazardous waste sites

L64 ANSWER 6 OF 37 HCA COPYRIGHT 2008 ACS on STN

TI Fluorinated ketene dithioacetals. 8.
1,1-Bis(ethylsulfanyl)perfluorobut-1-ene as starting material for the synthesis of substituted 2-(trifluoromethyl)furans and -pyrroles

L64 ANSWER 7 OF 37 HCA COPYRIGHT 2008 ACS on STN

TI Stereospecific synthesis and hydrolysis of optically active diaryl(acylamino)(acyloxy)spiro- λ 4-sulfanes and related cyclic diaryl(acylamino)sulfonium salts

L64 ANSWER 8 OF 37 HCA COPYRIGHT 2008 ACS on STN

TI Rhodanese activity and total sulfur content in frog and mouse liver

L64 ANSWER 9 OF 37 HCA COPYRIGHT 2008 ACS on STN

TI Thermodynamic aspects of energy conservation by chemolithotrophic sulfur bacteria in relation to the sulfur oxidation pathways

L64 ANSWER 10 OF 37 HCA COPYRIGHT 2008 ACS on STN

TI Determining priority hazardous substances related to hazardous waste sites

L64 ANSWER 11 OF 37 HCA COPYRIGHT 2008 ACS on STN

TI Photoionization spectra and ionization energies of HSCl, HSSSH,

SSCl, and HSSCl formed in the reaction system Cl/~~Cl~~₂/
~~H~~₂S

- L64 ANSWER 12 OF 37 HCA COPYRIGHT 2008 ACS on STN
TI "Oyster watch": monitoring trace metal and organochlorine concentrations in Sydney's coastal waters
- L64 ANSWER 13 OF 37 HCA COPYRIGHT 2008 ACS on STN
TI RI-MP2. First derivatives and global consistency
- L64 ANSWER 14 OF 37 HCA COPYRIGHT 2008 ACS on STN
TI Copolymerization of elemental sulfur with cyclic(arylene disulfide) oligomers
- L64 ANSWER 15 OF 37 HCA COPYRIGHT 2008 ACS on STN
TI Oxidative metabolism of inorganic sulfur compounds by bacteria
- L64 ANSWER 16 OF 37 HCA COPYRIGHT 2008 ACS on STN
TI A new method for the synthesis of two-equivalent couplers in color photography
- L64 ANSWER 17 OF 37 HCA COPYRIGHT 2008 ACS on STN
TI Stereocontrolled synthesis of E-homoallylic sulfides with 1,4,5 related chiral centers using the [2,3] sigmatropic rearrangement of sulfonium ylides
- L64 ANSWER 18 OF 37 HCA COPYRIGHT 2008 ACS on STN
TI Geochemical implications of subaqueous ~~molten~~ ~~sulfur~~ at Yugama Crater Lake, Kusatsu-Shirane Volcano, Japan
- L64 ANSWER 19 OF 37 HCA COPYRIGHT 2008 ACS on STN
TI Land disposal restrictions for third third schedule wastes
- L64 ANSWER 20 OF 37 HCA COPYRIGHT 2008 ACS on STN
TI Heat capacity, melting enthalpies, and melting temperatures of pure liquid inorganic compounds
- L64 ANSWER 21 OF 37 HCA COPYRIGHT 2008 ACS on STN
TI Electron correlations in molecules. III. Strength of electron correlations in localized and aromatic bonds or main-group atoms
- L64 ANSWER 22 OF 37 HCA COPYRIGHT 2008 ACS on STN
TI Equilibrium analysis of combustion/incineration
- L64 ANSWER 23 OF 37 HCA COPYRIGHT 2008 ACS on STN
TI γ -Radiolysis of dialkyl, alkyl-aryl and diaryl sulfones. A volatile product study

L64 ANSWER 24 OF 37 HCA COPYRIGHT 2008 ACS on STN
TI Reagent hazards

L64 ANSWER 25 OF 37 HCA COPYRIGHT 2008 ACS on STN
TI Formation and decomposition of thiosulfate in the ferrous sulfide-sulfur dioxide reaction

L64 ANSWER 26 OF 37 HCA COPYRIGHT 2008 ACS on STN
TI Dangerous chemicals reactions. 39. Inorganic oxides

L64 ANSWER 27 OF 37 HCA COPYRIGHT 2008 ACS on STN
TI Determination of sulfur in organic compounds by fusion with aluminum powder

L64 ANSWER 28 OF 37 HCA COPYRIGHT 2008 ACS on STN
TI General pseudopotential model for molecules with many valence electrons

L64 ANSWER 29 OF 37 HCA COPYRIGHT 2008 ACS on STN
TI Condensation of 1,3-hexasulfur diimide with chlorosulfanes as a route to fused-ring sulfur nitrides

L64 ANSWER 30 OF 37 HCA COPYRIGHT 2008 ACS on STN
TI Influence of fungicides on the quality and storageability of apples

L64 ANSWER 31 OF 37 HCA COPYRIGHT 2008 ACS on STN
TI Additive function of entropy of boiling, and the prediction of latent heat of vaporization and vapor pressure of liquids

L64 ANSWER 32 OF 37 HCA COPYRIGHT 2008 ACS on STN
TI Chemistry of sulfur. XLI. The reaction of hydrogen sulfide with chlorosulfanes, chlorine, or bromine (synthesis of lower sulfanes)

L64 ANSWER 33 OF 37 HCA COPYRIGHT 2008 ACS on STN
TI Chemistry of sulfur. XXIII. Preparation of higher bromosulfanes

L64 ANSWER 34 OF 37 HCA COPYRIGHT 2008 ACS on STN
TI Reductone. III. The elucidation of the structure of 5-aryl-3-hydroxytetronimides

L64 ANSWER 35 OF 37 HCA COPYRIGHT 2008 ACS on STN
TI Raney metals as desulfurization catalysts. I

L64 ANSWER 36 OF 37 HCA COPYRIGHT 2008 ACS on STN

TI Isomerism of the diazosulphanilic acids and diazo-ethers

L64 ANSWER 37 OF 37 HCA COPYRIGHT 2008 ACS on STN

TI Note on the interaction of bismuth haloid compounds and
hydrogen sulphide

=> D L64 2,3,10,18,19 BIB ABS HITSTR HITIND

L64 ANSWER 2 OF 37 HCA COPYRIGHT 2008 ACS on STN

AN 142:137629 HCA Full-text

TI Role of organic mediators in conversion of **hydrogen
sulfide** and **sulfanes** to elemental sulfur

AU Berberova, N. T.; Fomenko, A. I.; Shinkar, E. V.; Osipova, V. P.;
Monyashin, A. O.; Zin'kov, F. E.

CS Astrakhan. Gos. Tekh. Univ., Astrakhan., Russia

SO Izvestiya Vysshikh Uchebnykh Zavedenii, Khimiya i Khimicheskaya
Tekhnologiya (2003), 46(6), 74-78
CODEN: IVUKAR; ISSN: 0579-2991

PB Ivanovskii Gosudarstvennyi Khimiko-Tekhnologicheskii Universitet

DT Journal

LA Russian

AB It was shown that **polysulfanes** contained in sulfur are prone to
single-electron, irreversible oxidn. in non-aq. media. Radical
cations of **sulfanes** are fragmented with proton elimination.
Electrochem. and chem. oxidn. of higher **sulfanes** to elemental sulfur
involves stages of formation of lower **polysulfanes**. As mediators in
transformation of **hydrogen sulfide** and **sulfanes** into sulfur, various
org. single-electron oxidants were used. Sterically hindered o-
benzoquinones and o-semiquinondiamine platinum and palladium
complexes were used as catalysts of sulfur degasification process.

IT 7704-34-9P, Sulfur, preparation
(conversion of **hydrogen sulfide** and
sulfanes to)

RN 7704-34-9 HCA

CN Sulfur (CA INDEX NAME)

S

IT 7783-06-4, Hydrogen sulfide, reactions
(conversion of **hydrogen sulfide** and
sulfanes to elemental sulfur)

RN 7783-06-4 HCA

CN Hydrogen sulfide (H2S) (CA INDEX NAME)

H₂S

CC 49-1 (Industrial Inorganic Chemicals)
Section cross-reference(s): 72
ST Claus process sulfur purifn **hydrogen sulfide**
sulfane removal
IT Cyclic voltammetry
Oxidation
Oxidation, electrochemical
(conversion of **hydrogen sulfide** and
sulfanes to elemental sulfur)
IT Decomposition
(of **polysulfanes**; conversion of **hydrogen**
sulfide and **sulfanes** to elemental sulfur)
IT 7704-34-9P, Sulfur, preparation
(conversion of **hydrogen sulfide** and
sulfanes to)
IT 7783-06-4, Hydrogen sulfide, reactions
37331-50-3, Sulfane
(conversion of **hydrogen sulfide** and
sulfanes to elemental sulfur)
IT 3383-21-9 34105-76-5 37780-09-9 329783-64-4 590418-61-4
(in **sulfur purifn.**; conversion of
hydrogen sulfide and **sulfanes** to
elemental sulfur)

L64 ANSWER 3 OF 37 HCA COPYRIGHT 2008 ACS on STN
AN 140:273048 HCA Full-text
TI Procedure for the conversion of **polysulfane** in
hydrogen sulfide and sulfur in gas flows resulting
in **hydrogen sulfide** synthesis
IN Moeller, Alexander; Boeck, Wolfgang; Taugner, Wolfgang; Heinzel,
Harald; Rautenberg, Stephan
PA Degussa A.-G., Germany
SO Ger. Offen., 2 pp.
CODEN: GWXXBX
DT Patent
LA German
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	DE 10245164	A1	20040408	DE 2002-10245164	

					200209 26
				<--	
WO 2004028963	A1	20040408	WO 2003-EP9432		200308 26
				<--	
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003255483	A1	20040419	AU 2003-255483		200308 26
				<--	
EP 1542925	A1	20050622	EP 2003-798130		200308 26
				<--	
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
BR 2003014663	A	20050802	BR 2003-14663		200308 26
				<--	
CN 1684905	A	20051019	CN 2003-823024		200308 26
				<--	
CN 1292980	C	20070103			
JP 2006500309	T	20060105	JP 2004-538838		200308 26
				<--	
RU 2323874	C2	20080510	RU 2005-112707		200308 26
				<--	

US 20050265913 A1 20051201 US 2005-529148

200503
24

<--

US 7326393 B2 20080205
US 20080175778 A1 20080724 US 2007-976717

200710
26

<--

PRAI DE 2002-10245164 A 20020926 <--
WO 2003-EP9432 W 20030826 <--
US 2005-529148 A2 20050324

AB Polysulfane (H₂S_x) resulting in hydrogen sulfide synthesis are
catalytically converted by contacting with e.g. activated carbon,
Al₂O₃, SiO₂, or zeolithes to give H₂S and S.

IT 7704-34-9P, Sulfur, preparation 7783-06-4P
, Hydrogen sulfide, preparation
(procedure for conversion of polysulfane in
hydrogen sulfide and sulfur in gas flows
resulting in hydrogen sulfide synthesis)

RN 7704-34-9 HCA
CN Sulfur (CA INDEX NAME)

S

RN 7783-06-4 HCA
CN Hydrogen sulfide (H₂S) (CA INDEX NAME)

H₂S

IC ICM B01D053-48
ICS B01D053-86
CC 49-2 (Industrial Inorganic Chemicals)
ST polysulfane catalytic conversion; hydrogen
sulfide manuf; sulfur manuf
IT Zeolites (synthetic), processes
(for conversion of polysulfane in hydrogen
sulfide and sulfur in gas flows resulting in
hydrogen sulfide synthesis)
IT 7440-44-0, Carbon, processes
(activated; for conversion of polysulfane in

hydrogen sulfide and sulfur in gas flows
resulting in hydrogen sulfide synthesis)

IT 1344-28-1, Alumina, processes 7631-86-9, Silica, processes
(for conversion of polysulfane in hydrogen
sulfide and sulfur in gas flows resulting in
hydrogen sulfide synthesis)

IT 7704-34-9P, Sulfur, preparation 7783-06-4P
, Hydrogen sulfide, preparation
(procedure for conversion of polysulfane in
hydrogen sulfide and sulfur in gas flows
resulting in hydrogen sulfide synthesis)

IT 37331-50-3, Sulfane
(procedure for conversion of polysulfane in
hydrogen sulfide and sulfur in gas flows
resulting in hydrogen sulfide synthesis)

L64 ANSWER 10 OF 37 HCA COPYRIGHT 2008 ACS on STN
AN 129:241066 HCA Full-text
OREF 129:48971a,48974a

TI Determining priority hazardous substances related to hazardous waste
sites

AU Roney, Nickolette; Henriques, William D.; Fay, Mike; Holler, James
S.; Susten, Sandra S.

CS Public Health Service, Agency for Toxic Substances and Disease
Registry, U.S. Department of Health and Human Services, Atlanta, GA,
30333, USA

SO Toxicology and Industrial Health (1998), 14(4), 521-532
CODEN: TIHEEC; ISSN: 0748-2337

PB Princeton Scientific Publishing Co., Inc.
DT Journal
LA English

AB Hazardous substances on the Comprehensive Environmental Response,
Compensation, and Liability Act were ranked.

IT 7782-50-5, Chlorine, biological studies 7783-06-4,
Hydrogen sulfide, biological studies
15117-53-0, Sulfur-35, biological studies
(detg. priority hazardous substances related to hazardous waste
sites)

RN 7782-50-5 HCA
CN Chlorine (CA INDEX NAME)

C1-C1

RN 7783-06-4 HCA

CN Hydrogen sulfide (H2S) (CA INDEX NAME)

H2S

RN 15117-53-0 HCA

CN Sulfur, isotope of mass 35 (CA INDEX NAME)

35s

CC 4-4 (Toxicology)

Section cross-reference(s): 8

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L64 ANSWER 18 OF 37 HCA COPYRIGHT 2008 ACS on STN

AN 122:60377 HCA Full-text

OREF 122:11559a,11562a

TI Geochemical implications of subaqueous **molten sulfur** at Yugama Crater Lake, Kusatsu-Shirane Volcano, Japan

AU Takano, Bokuichiro; Saitoh, Hiroko; Takano, Etsu

CS Dep. Chem., Univ. Tokyo, Tokyo, 153, Japan

SO Geochemical Journal (1994), 28(3), 199-216

CODEN: GEJOBE; ISSN: 0016-7002

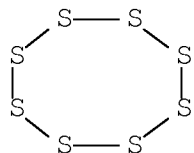
DT Journal

LA English

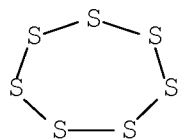
AB Crater lakes with active subaq. fumaroles often contain **molten sulfur** pools on the lake floor. Volcanic gases passing through the sulfur pools carry hollow spherules of solidified **molten sulfur** to the surface of crater lakes. This sulfur dissolves SO2 and H2S gases and releases these gases into the water. The sulfur also contains homocyclic sulfur (cycl. S_x, x = 6-16) and probably **sulfane** monosulfonates. The concn. of cyclic S₇ increases with increasing temp. between 120 and 175°, which is useful to est. the temps. of subaq. **molten sulfur** pools. The gases drastically lower viscosity of the **molten sulfur**. This may be due to blockage of growing long-chain sulfur mols. by the dissolved gases. Thus a jump in viscosity at 159° obsd. for pure sulfur is not likely to be present in subaq. **molten sulfur** at crater lakes. Based on the chem. and morphol. of sulfur slicks, activity of subaq. fumaroles can be divided into four stages (I-IV), each of which may serve for qual. in situ monitoring of crater lakes. At Stage I, no **molten sulfur** pools exist on the

lake floor and fumaroles discharge low temp. gases ($<119^{\circ}$) contg. only traces of SO_2 ; at Stage II, subaq. molten sulfur pools ($119^{\circ} < T < 150^{\circ}$) are formed, releasing yellow hollow spherules of sulfur with no tails; at Stage III, the fumarolic temp. increases to $>150^{\circ}$, resulting in an increase in molten sulfur viscosity; and at Stage IV, frequent phreatic or geyser-like eruptions are obsd. The molten sulfur pools are dispersed into pieces on the lake floor at this stage.

IT 10544-50-0, Sulfur, mol. (S8), occurrence 21459-04-1
 , Cycloheptasulfur, occurrence
 (in molten sulfur in waters as indication of
 fumarolic activity at bottom of Yugama Crater Lake,
 Kusatsu-Shirane Volcano, Japan)
 RN 10544-50-0 HCA
 CN Sulfur, mol. (S8) (CA INDEX NAME)



RN 21459-04-1 HCA
 CN Sulfur, mol. (S7) (CA INDEX NAME)



IT 7704-34-9, Sulfur, occurrence
 (subaq. molten; in waters as indication of fumarolic
 activity at bottom of Yugama Crater Lake, Kusatsu-Shirane
 Volcano, Japan)
 RN 7704-34-9 HCA
 CN Sulfur (CA INDEX NAME)

CC 53-3 (Mineralogical and Geological Chemistry)
 ST sulfur subaq molten Yugama Crater Lake
 IT Fumaroles
 (subaq. molten sulfur in waters as indication
 of fumarolic activity at bottom of Yugama Crater Lake,
 Kusatsu-Shirane Volcano, Japan)
 IT Waters, natural
 (lake, caldera, subaq. molten sulfur in
 waters as indication of fumarolic activity at bottom of Yugama
 Crater Lake, Kusatsu-Shirane Volcano, Japan)
 IT 10544-50-0, Sulfur, mol. (S8), occurrence 21459-04-1
 , Cycloheptasulfur, occurrence
 (in molten sulfur in waters as indication of
 fumarolic activity at bottom of Yugama Crater Lake,
 Kusatsu-Shirane Volcano, Japan)
 IT 7704-34-9, Sulfur, occurrence
 (subaq. molten; in waters as indication of fumarolic
 activity at bottom of Yugama Crater Lake, Kusatsu-Shirane
 Volcano, Japan)

L64 ANSWER 19 OF 37 HCA COPYRIGHT 2008 ACS on STN
 AN 114:234441 HCA Full-text
 OREF 114:39439a,39442a
 TI Land disposal restrictions for third third schedule wastes
 CS United States Environmental Protection Agency, Washington, DC,
 20460, USA
 SO Federal Register (1991), 56(21), 3864-928, 31 Jan 1991
 CODEN: FEREAC; ISSN: 0097-6326
 DT Journal
 LA English
 AB Regulations on prohibition of land disposal of certain hazardous
 wastes are amended under the Federal Resource Conservation and
 Recovery Act. These amendments include: treatment stds. for certain
 solvent wastes, clarification of the term multisource leachate,
 regulations for small quantity generators, the definition of inorg.
 solid debris, application of the Toxicity Characteristic Leaching
 Procedure and the Extn. Procedure in detg. land disposal
 restrictions, addn. of acid leaching-chem. pptn. and thermal recovery
 of metals to the list of technologies for waste treatment, tables of
 regulated hazardous constituent concns. in wastewaters and
 nonwastewaters, technol.-based stds. by waste code, and effective
 dates of regulation for the specific wastes.
 IT 7783-06-4, Hydrogen sulfide, uses and
 miscellaneous 18496-25-8, Sulfide
 (hazardous wastes contg., land disposal of, stds. for)
 RN 7783-06-4 HCA
 CN Hydrogen sulfide (H2S) (CA INDEX NAME)

H₂S

RN 18496-25-8 HCA
CN Sulfide (CA INDEX NAME)

S²⁻

IT ~~7782-50-5P~~, Chlorine, uses and miscellaneous
(wastes from mercury cell prodn. of, land disposal of, stds. for)
RN 7782-50-5 HCA
CN Chlorine (CA INDEX NAME)

Cl-Cl

CC 60-5 (Waste Treatment and Disposal)

=> D L65 1-10 TI

L65 ANSWER 1 OF 10 HCA COPYRIGHT 2008 ACS on STN
TI Alternatives for processing metal sulfides without SO_x emissions

L65 ANSWER 2 OF 10 HCA COPYRIGHT 2008 ACS on STN
TI The preparation of chalcogenide glasses in **chlorine**
reactive **atmosphere**

L65 ANSWER 3 OF 10 HCA COPYRIGHT 2008 ACS on STN
TI Effect of pesticides on most probable number of soil microbes from
tea (Camellia sinensis) plantations and uncultivated land enumerated
in enrichment media

L65 ANSWER 4 OF 10 HCA COPYRIGHT 2008 ACS on STN
TI Process for preparing sulphur tetrafluoride by reduction of a
uranium fluoride

L65 ANSWER 5 OF 10 HCA COPYRIGHT 2008 ACS on STN

TI Synthesis and properties of silica with chemically **fixed sulfur**-containing organic compounds

L65 ANSWER 6 OF 10 HCA COPYRIGHT 2008 ACS on STN
TI Persistence and residues of carbofuran, disulfoton and **endosulfan** used for the control of major pests of sorghum crop

L65 ANSWER 7 OF 10 HCA COPYRIGHT 2008 ACS on STN
TI Reactions of active nitrogen with sulfur compounds

L65 ANSWER 8 OF 10 HCA COPYRIGHT 2008 ACS on STN
TI Fixative for keratin fibers

L65 ANSWER 9 OF 10 HCA COPYRIGHT 2008 ACS on STN
TI Studies on the effect of BZ 55 and D 860 on the pancreatic islet cells of rat

L65 ANSWER 10 OF 10 HCA COPYRIGHT 2008 ACS on STN
TI Compounds of alummium, chlorine and sulfur

=> D L66 1-20 TI

L66 ANSWER 1 OF 20 HCA COPYRIGHT 2008 ACS on STN
TI Removal of **polysulfanes** from **hydrogen sulfide** streams

L66 ANSWER 2 OF 20 HCA COPYRIGHT 2008 ACS on STN
TI The **sulfane** sulfur of persulfides is the actual substrate of the sulfur-oxidizing enzymes from Acidithiobacillus and Acidiphilium spp.

L66 ANSWER 3 OF 20 HCA COPYRIGHT 2008 ACS on STN
TI Product class 7: 1,2-dithiolium salts and related compounds

L66 ANSWER 4 OF 20 HCA COPYRIGHT 2008 ACS on STN
TI A Chemical Equilibrium Equation of State Model for Elemental Sulfur and Sulfur-Containing Fluids

L66 ANSWER 5 OF 20 HCA COPYRIGHT 2008 ACS on STN
TI An Experimental Study on the Kinetics of the Formation and Decomposition of **Sulfanes** in the Sulfur/H₂S System

L66 ANSWER 6 OF 20 HCA COPYRIGHT 2008 ACS on STN
TI Oxidation of **hydrogen sulfide** by a methanol

solution of sulfur dioxide and production of
cyclooctasulfane

L66 ANSWER 7 OF 20 HCA COPYRIGHT 2008 ACS on STN

TI Ab initio study of hypervalent sulfur hydrides as model
intermediates in the interconversion reactions of compounds
containing sulfur-sulfur bonds

L66 ANSWER 8 OF 20 HCA COPYRIGHT 2008 ACS on STN

TI Novel symmetrical and mixed carbamoyl and aminopolysulfanes
by reactions of (alkoxydichloromethyl)polysulfanyl
substrates with N-methylaniline

L66 ANSWER 9 OF 20 HCA COPYRIGHT 2008 ACS on STN

TI Sulfurization of azines. Part VI. Sulfurization of Py-quinolyl
sulfides

L66 ANSWER 10 OF 20 HCA COPYRIGHT 2008 ACS on STN

TI Separation of dihydrogen polysulfides (polysulfanes) using
reversed-phase HPLC

L66 ANSWER 11 OF 20 HCA COPYRIGHT 2008 ACS on STN

TI Sulfur in aqueous solution

L66 ANSWER 12 OF 20 HCA COPYRIGHT 2008 ACS on STN

TI Liquid hydrogen sulfide in contact with sulfur

L66 ANSWER 13 OF 20 HCA COPYRIGHT 2008 ACS on STN

TI The chemistry of sulfur. LII. Thiocyanogen trichloride and some of
its derivatives

L66 ANSWER 14 OF 20 HCA COPYRIGHT 2008 ACS on STN

TI Acids of sulfur. XII. On the problem of Wackenroder's solution

L66 ANSWER 15 OF 20 HCA COPYRIGHT 2008 ACS on STN

TI Addition of hydrogen sulfide to the nitrile
group of arylsulfonylcyanamides by means of thiosulfuric acid

L66 ANSWER 16 OF 20 HCA COPYRIGHT 2008 ACS on STN

TI Chemistry of sulfur. XL. Thermochemistry of the sulfanes:
enthalpies of formation and bond energies

L66 ANSWER 17 OF 20 HCA COPYRIGHT 2008 ACS on STN

TI Chemistry of sulfur. XXX. Preparation of the
sulfanes, H₂S₂, H₂S₃, H₂S₄, and H₂S₅

L66 ANSWER 18 OF 20 HCA COPYRIGHT 2008 ACS on STN

TI The chemistry of sulfur. XXXII. Kinetic investigation of the thermal decomposition of **disulfane** H₂S₂

L66 ANSWER 19 OF 20 HCA COPYRIGHT 2008 ACS on STN

TI The chemistry of sulfur. XXIX. The **preparation** of crude **sulfanes**

L66 ANSWER 20 OF 20 HCA COPYRIGHT 2008 ACS on STN

TI Chemistry of sulfur. XIX. Electrochemical **preparation** of **sulfanes**, H₂Sn

=> D L66 1,12,17,19 BIB ABS HITSTR HITIND

L66 ANSWER 1 OF 20 HCA COPYRIGHT 2008 ACS on STN

AN 149:156324 HCA Full-text

TI Removal of **polysulfanes** from **hydrogen sulfide** streams

IN Moller, Alexander; Bock, Wolfgang; Taugner, Wolfgang; Heinzel, Harald; Rautenberg, Stephan

PA Evonik Degussa G.M.B.H., Germany

SO U.S. Pat. Appl. Publ., 4pp., Cont.-in-part of U.S. Ser. No. 529,148. CODEN: USXXCO

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	
PI	US 20080175778	A1	20080724	US 2007-976717	200710 26
				<--	
	DE 10245164	A1	20040408	DE 2002-10245164	200209 26
				<--	
	WO 2004028963	A1	20040408	WO 2003-EP9432	200308 26
				<--	

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK,

SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU,
 ZA, ZM, ZW
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,
 BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
 EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE,
 SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR,
 NE, SN, TD, TG
 US 20050265913 A1 20051201 US 2005-529148

200503
 24

<--

US 7326393 B2 20080205
 PRAI DE 2002-10245164 A 20020926 <--
 WO 2003-EP9432 W 20030826 <--
 US 2005-529148 A2 20050324

AB **Polysulfanes** are removed from crude gas formed during the prodn. of
hydrogen sulfide from sulfur and hydrogen by passing the crude gas
 through a wash system where it is brought into contact with a wash
 soln. of water or methanol; and collecting the purified gas from the
 wash soln. The washing soln. can contain 0.5-20 wt.% of an alkali or
 alk. earth hydroxide or oxide, org. amine, amino alc., or ammonia.
 The wash system is a jet washer. The process further includes a
 second wash step in which the purified gas is passed through a
 countercurrent washer contg. an aq. or methanolic soln. The purified
 gas may also be further treated by adsorption.

IT 7783-06-4P, **Hydrogen sulfide** (
H₂S), preparation
 (removal of **polysulfanes** from **hydrogen**
sulfide streams)

RN 7783-06-4 HCA
 CN Hydrogen sulfide (H₂S) (CA INDEX NAME)

H₂S

IT 7704-34-9, Sulfur, reactions
 (removal of **polysulfanes** from **hydrogen**
sulfide streams)

RN 7704-34-9 HCA
 CN Sulfur (CA INDEX NAME)

S

INCL 423242400; 423243010; 423243080; 423243060
 CC 49-8 (Industrial Inorganic Chemicals)
 Section cross-reference(s): 48
 ST polysulfane removal hydrogen sulfide
 purifn jet washing adsorption
 IT Alcohols, processes
 (amino, washing fluid contg.; removal of polysulfanes
 from hydrogen sulfide streams)
 IT Adsorption
 Adsorption apparatus
 Scrubbers
 Wet scrubbing
 (removal of polysulfanes from hydrogen
 sulfide streams)
 IT Alkali metal hydroxides
 Alkaline earth hydroxides
 Amines, processes
 (washing fluid contg.; removal of polysulfanes from
 hydrogen sulfide streams)
 IT 7440-44-0, Carbon, uses
 (activated, adsorbent; removal of polysulfanes from
 hydrogen sulfide streams)
 IT 7783-06-4P, Hydrogen sulfide (
 H₂S), preparation
 (removal of polysulfanes from hydrogen
 sulfide streams)
 IT 1333-74-0, Hydrogen, reactions 7704-34-9, Sulfur,
 reactions
 (removal of polysulfanes from hydrogen
 sulfide streams)
 IT 50864-71-6, Hydrogen polysulfide
 (removal of polysulfanes from hydrogen
 sulfide streams)
 IT 102-71-6, Triethanolamine, processes 1310-58-3, Potassium
 hydroxide, processes 1310-73-2, Sodium hydroxide, processes
 7664-41-7, Ammonia, processes
 (washing fluid contg.; removal of polysulfanes from
 hydrogen sulfide streams)
 IT 67-56-1, Methanol, uses
 (washing fluid; removal of polysulfanes from
 hydrogen sulfide streams)

L66 ANSWER 12 OF 20 HCA COPYRIGHT 2008 ACS on STN
 AN 72:83443 HCA Full-text
 OREF 72:15203a,15206a
 TI Liquid hydrogen sulfide in contact with sulfur

AU Smith, Jerry Joseph; Jensen, Dan; Meyer, Beat
CS Chem. Dep., Univ. of Washington, Seattle, WA, USA
SO Journal of Chemical and Engineering Data (1970), 15(1),
144-6
CODEN: JCEAAX; ISSN: 0021-9568
DT Journal
LA English
AB S in contact with liq. H_2S at equil. pressure 10^{-6} was studied
between -81 and 120° . The soly. of solid S is $5 + 10^{-6}$ mole of S_8
per g of H_2S at -80° and $5 + 10^{-5}$ at 80° . Over this range, log soly.
vs. $1/T$ gives a straight line. From a least squares anal. of the
data, $\Delta H_S = 2.1 \pm 0.1$ kcal/mole. From 80 to -80° , the soly. can be
represented by $\log S = (-4.52 + 102/T) - 3.00$. In contact with liq.
 H_2S , S m. 98° , below the crit. point of H_2S . The m.p. depression of
S is about 20° , indicating that H_2S dissolves appreciably in solid S.
NMR spectra show that no detectable chem. reaction occurs up to 120° .
Photolysis yields a white, finely powd. ppt., probably photosulfur,
which redissolves or converts to orthorhombic S within 4 weeks after
irradn.; no sulfanes are formed. Slow reaction occurs between liq. S
and gaseous H_2S above 150° .
IT 7783-06-4, properties
(soly. in, of sulfur)
RN 7783-06-4 HCA
CN Hydrogen sulfide (H_2S) (CA INDEX NAME)

H_2S

IT 7704-34-9, properties
(soly. of, in liq. hydrogen sulfide)
RN 7704-34-9 HCA
CN Sulfur (CA INDEX NAME)

S

CC 68 (Phase Equilibriums, Chemical Equilibriums, and Solutions)
ST hydrogen sulfide S system; sulfur H
sulfide system
IT Photolysis
(of sulfur, in contact with liq. hydrogen
sulfide)
IT Heat of solution

(of sulfur, in hydrogen sulfide)
IT 7783-06-4, properties
(soly. in, of sulfur)
IT 7704-34-9, properties
(soly. of, in liq. hydrogen sulfide)

L66 ANSWER 17 OF 20 HCA COPYRIGHT 2008 ACS on STN

AN 51:61453 HCA Full-text

OREF 51:11142e-g

TI Chemistry of sulfur. XXX. Preparation of the
sulfanes, H₂S₂, H₂S₃, H₂S₄, and H₂S₅

AU Feher, F.; Laue, W.; Winkhaus, G.

CS Univ. Cologne, Germany

SO Zeitschrift fuer Anorganische und Allgemeine Chemie (1956
) , 288, 113-22

CODEN: ZAACAB; ISSN: 0044-2313

DT Journal

LA Unavailable

AB cf. C.A. 51, 10204e. The procedure for the prepn. of H₂S₂, H₂S₃,
H₂S₄, and H₂S₅ by the cracking of raw sulfanes at pressures of 10-15
mm. Hg is described. The procedures for purification are also
discussed. The ds. are 1.334, 1.491, 1.582, 1.644 (all ±
0.001)g./cc., resp. The kinematic viscosities are 0.00462, 0.00886,
0.0166, and 0.0336 (all ± 0.0001) Stokes, resp. The dynamic
viscosities are 0.00616, 0.1321, 0.0263, and 0.0552 (all ± 0.0001)
poise, resp. The n_{20D} values are 1.631, 1.729, 1.791, and 1.836 (all
± 0.001), resp. Raman lines are listed.

IT 7704-34-9, Sulfur
(chemistry of)

RN 7704-34-9 HCA

CN Sulfur (CA INDEX NAME)

S

CC 6 (Inorganic Chemistry)

IT Spectra, Raman
(of sulfane derivs.)

IT Hydrogen sulfides
(prepn. and properties of H₂S₂, H₂S₃, H₂S₄ and H₂S₅)

IT 7704-34-9, Sulfur
(chemistry of)

L66 ANSWER 19 OF 20 HCA COPYRIGHT 2008 ACS on STN

AN 51:46252 HCA Full-text

OREF 51:8566a-c

TI The chemistry of sulfur. XXIX. The preparation of crude
sulfanes

AU Feher, F.; Laue, W.

CS Univ. Cologne, Germany

SO Zeitschrift fuer Anorganische und Allgemeine Chemie (1956
) , 288, 103-12

CODEN: ZAACAB; ISSN: 0044-2313

DT Journal

LA Unavailable

AB cf. C.A. 43, 3156f; 44, 965g; 51, 3337g. The procedure for the
prepn. of crude **sulfane** mixts. by the addn. of HCl to Na₂S_x is
carried out on a continuous basis. The influence of various factors
on the yield and on the compn. of the raw oils is considered, with
the compn. varying from about H₂S_{4.5} to H₂S₇, depending upon the
compn. of the H₂S_x. Equipment for the production of 2 kg. of raw
sulfanes per day is described. In one expt., 300 g. S, 1200 g.
Na₂S₉·9H₂O, and 500 ml. H₂O are mixed together on a water bath until
all S is dissolved. The mixt. is cooled to -20° and 1:1 HCl (cooled
to -10°) is added. After the reaction is complete, the oil is sepd.,
washed with HCl, and finally dried with P₂O₅. The yield is 300-350
g. of raw **sulfanes** with the compn. H₂S₅-H₂S_{5.5}.

IT 7704-34-9, Sulfur
(chemistry of)

RN 7704-34-9 HCA

CN Sulfur (CA INDEX NAME)

S

CC 6 (Inorganic Chemistry)

IT **Hydrogen sulfides**
(prepn. of H₂S_x)

IT 7704-34-9, Sulfur
(chemistry of)

=> D L67 1-67 TI

L67 ANSWER 1 OF 67 HCA COPYRIGHT 2008 ACS on STN

TI Calculation of the visible-UV absorption spectra of **hydrogen
sulfide**, bisulfide, polysulfides, and As and Sb sulfides, in
aqueous solution

L67 ANSWER 2 OF 67 HCA COPYRIGHT 2008 ACS on STN

- TI Novel species for the sulfur zoo: isomers of S₈
- L67 ANSWER 3 OF 67 HCA COPYRIGHT 2008 ACS on STN
TI Thiosulfoxides (X₂S=S) and **disulfanes** (XSSX): first observation of organic thiosulfoxides
- L67 ANSWER 4 OF 67 HCA COPYRIGHT 2008 ACS on STN
TI Sulfur isotope fractionation during bacterial reduction and disproportionation of thiosulfate and sulfite
- L67 ANSWER 5 OF 67 HCA COPYRIGHT 2008 ACS on STN
TI The behavior of metals and sulfur during the formation of hydrothermal mercury-antimony-arsenic mineralization, Uzon Caldera, Kamchatka, Russia
- L67 ANSWER 6 OF 67 HCA COPYRIGHT 2008 ACS on STN
TI Carbon black and its manufacture process and rubber mixtures containing the same
- L67 ANSWER 7 OF 67 HCA COPYRIGHT 2008 ACS on STN
TI How Unstable are Thiosulfoxides? An ab Initio MO Study of Various **Disulfanes** RSSR (R = H, Me, Pr, All), Their Branched Isomers R₂SS, and the Related Transition States
- L67 ANSWER 8 OF 67 HCA COPYRIGHT 2008 ACS on STN
TI Low-temperature addition of hydrogen polysulfides to olefins: formation of 2,2'-dialkyl polysulfides from alk-1-enes and cyclic (poly)sulfides and polymeric organic sulfur compounds from α,ω -dienes
- L67 ANSWER 9 OF 67 HCA COPYRIGHT 2008 ACS on STN
TI Experimental study of the system water-**hydrogen sulfide**-crystalline sulfur under low-temperature hydrothermal conditions
- L67 ANSWER 10 OF 67 HCA COPYRIGHT 2008 ACS on STN
TI Kinetics of isotope exchange reactions involving intra- and intermolecular reactions: I. Rate law for a system with two chemical compounds and three exchangeable atoms
- L67 ANSWER 11 OF 67 HCA COPYRIGHT 2008 ACS on STN
TI The possible role of thiosulfate in the precipitation of sulfur-34-rich barite in some Mississippi Valley-type deposits
- L67 ANSWER 12 OF 67 HCA COPYRIGHT 2008 ACS on STN
TI An ab initio study of the **polysulfane** series **hydrogen sulfide** (H₂S₂ to H₂S₆) and of the sulfur

octamer

- L67 ANSWER 13 OF 67 HCA COPYRIGHT 2008 ACS on STN
TI Determination of sulfide in sewage effluents using a new spectrophotometric method
- L67 ANSWER 14 OF 67 HCA COPYRIGHT 2008 ACS on STN
TI Application of secondary ion mass spectrometry (SIMS) to the study of sulfur crosslinks in isoprene rubber, natural rubber, and SBR vulcanizates
- L67 ANSWER 15 OF 67 HCA COPYRIGHT 2008 ACS on STN
TI Chalcogen metallocene compounds. Reaction of zirconocene and hafnocene dihydrides with sulfur, selenium, and tellurium
- L67 ANSWER 16 OF 67 HCA COPYRIGHT 2008 ACS on STN
TI Cadmium polysulfide complexes, $[Cd(S_x)(S_y)]_2^-$: syntheses, crystal and molecular structures, and cadmium-113 NMR studies
- L67 ANSWER 17 OF 67 HCA COPYRIGHT 2008 ACS on STN
TI Novel synthetic routes to disulfur and disulfur monoxide ligands: nucleophilic attack at coordinated imino-oxo- λ^4 -**sulfanes**
- L67 ANSWER 18 OF 67 HCA COPYRIGHT 2008 ACS on STN
TI Mineral composition and geochemistry of rocks with bacterial overgrowths from submarine hydrothermal deposits
- L67 ANSWER 19 OF 67 HCA COPYRIGHT 2008 ACS on STN
TI Investigations on microbial sulfur respiration. 1. Activation and reduction of elemental sulfur in several strains of eubacteria
- L67 ANSWER 20 OF 67 HCA COPYRIGHT 2008 ACS on STN
TI Sulfur isotope exchange reactions in the aqueous system: thiosulfate-sulfide-sulfate at hydrothermal temperature
- L67 ANSWER 21 OF 67 HCA COPYRIGHT 2008 ACS on STN
TI Bond dissociation energies in **sulfanes**: an ab initio study
- L67 ANSWER 22 OF 67 HCA COPYRIGHT 2008 ACS on STN
TI Composition of crude **sulfane** oil, identification of the **sulfanes** H₂S₉ to H₂S₃₅
- L67 ANSWER 23 OF 67 HCA COPYRIGHT 2008 ACS on STN
TI Semimicro methods for analysis of labile sulfide and of labile sulfide plus **sulfane** sulfur in unusually stable

iron-sulfur proteins

- L67 ANSWER 24 OF 67 HCA COPYRIGHT 2008 ACS on STN
TI Organometallic sulfur complexes. 1. Syntheses, structures, and characterizations of organoiron **sulfane** complexes
 $(\mu\text{-S}_x)[(\eta^5\text{-C}_5\text{H}_5)\text{Fe}(\text{CO})_2]_2$ ($x = 1\text{-}4$)
- L67 ANSWER 25 OF 67 HCA COPYRIGHT 2008 ACS on STN
TI Origin of the labile sulfide in the iron-sulfur proteins of *Escherichia coli*
- L67 ANSWER 26 OF 67 HCA COPYRIGHT 2008 ACS on STN
TI The biosynthetic origin of the sulfur atoms in lipoic acid
- L67 ANSWER 27 OF 67 HCA COPYRIGHT 2008 ACS on STN
TI Stable isotope fractionation by *Clostridium pasteurianum*. 4. Sulfur isotope fractionation during enzymatic trithionate, thiosulfate and sulfite reductions
- L67 ANSWER 28 OF 67 HCA COPYRIGHT 2008 ACS on STN
TI Ab initio Hartree-Fock-Slater calculations of **polysulfanes** H_2S_n ($n = 1\text{-}4$) and the ions HS_n^- and S_n^{2-}
- L67 ANSWER 29 OF 67 HCA COPYRIGHT 2008 ACS on STN
TI On the possible roles of gaseous sulfur and **sulfanes** in the atmosphere of Venus
- L67 ANSWER 30 OF 67 HCA COPYRIGHT 2008 ACS on STN
TI Sulfur isotope fractionation by *Salmonella heidelberg*: inverse isotope effects during growth on high concentrations of sodium sulfite
- L67 ANSWER 31 OF 67 HCA COPYRIGHT 2008 ACS on STN
TI Thiosulfate formation and associated isotope effects during sulfite reduction by *Clostridium pasteurianum*
- L67 ANSWER 32 OF 67 HCA COPYRIGHT 2008 ACS on STN
TI Chemistry of phosphorus. 59. Synthesis and structure of 1,2,4-triphenylcyclo-3,5-dithia-1,2,4-triphosphane-1-thione
- L67 ANSWER 33 OF 67 HCA COPYRIGHT 2008 ACS on STN
TI Mechanism for desulfuration of sulfur-containing substances on Raney nickel and iron catalysts
- L67 ANSWER 34 OF 67 HCA COPYRIGHT 2008 ACS on STN
TI High dose rate radiolysis of **hydrogen sulfide**. Sulfur as an electron scavenger

L67 ANSWER 35 OF 67 HCA COPYRIGHT 2008 ACS on STN
TI Studies of sulfur in liquid **hydrogen sulfide** and sulfur dioxide and the use of **chlorosulfanes** in the study of elemental sulfur

L67 ANSWER 36 OF 67 HCA COPYRIGHT 2008 ACS on STN
TI Thermal decomposition of tri- and **tetrasulfanes**

L67 ANSWER 37 OF 67 HCA COPYRIGHT 2008 ACS on STN
TI Rapid method for determining sulfur in organic substances

L67 ANSWER 38 OF 67 HCA COPYRIGHT 2008 ACS on STN
TI Thiolysis of sulfuryl chloride

L67 ANSWER 39 OF 67 HCA COPYRIGHT 2008 ACS on STN
TI Ultramicro and trace analysis of organic substances. I. Determination of very small quantities of substances of low volatility based upon their contents of fluorine, sulfur, or phosphorus

L67 ANSWER 40 OF 67 HCA COPYRIGHT 2008 ACS on STN
TI Determination of sulfur compounds in sulfate turpentine

L67 ANSWER 41 OF 67 HCA COPYRIGHT 2008 ACS on STN
TI Organic sulfur compounds in the kraft pulping process

L67 ANSWER 42 OF 67 HCA COPYRIGHT 2008 ACS on STN
TI Acids of sulfur. V. Degradation of chainlike sulfur compounds

L67 ANSWER 43 OF 67 HCA COPYRIGHT 2008 ACS on STN
TI Bond energies and the interactions between next-nearest neighbors. I. Saturated hydrocarbons, diamond, **sulfanes**, S₈, and organic sulfur compounds

L67 ANSWER 44 OF 67 HCA COPYRIGHT 2008 ACS on STN
TI Acids of sulfur. XVI. Iodometric and colorimetric determination of **sulfane**, elemental sulfur, and **sulfane-sulfur** mixtures

L67 ANSWER 45 OF 67 HCA COPYRIGHT 2008 ACS on STN
TI The chemistry of sulfur. XLVIII. The reaction of **sulfanes** with chloral

L67 ANSWER 46 OF 67 HCA COPYRIGHT 2008 ACS on STN
TI Contributions to the chemistry of sulfur. XLIX. The homologous series of **cyanosulfanes**, Sn(CN)₂

L67 ANSWER 47 OF 67 HCA COPYRIGHT 2008 ACS on STN
TI Chemistry of sulfur. XLVII. The molar heat of gaseous **disulfane** and the barrier potential of the inner rotation

L67 ANSWER 48 OF 67 HCA COPYRIGHT 2008 ACS on STN
TI Chemistry of sulfur. XLIV. Enthalpies of vaporization, vapor pressures, boiling points, critical temperatures and pressures, and Trouton's constants of **sulfanes**

L67 ANSWER 49 OF 67 HCA COPYRIGHT 2008 ACS on STN
TI Chemistry of sulfur. XXXIX. The viscosities of the **sulfanes**

L67 ANSWER 50 OF 67 HCA COPYRIGHT 2008 ACS on STN
TI Chemistry of sulfur. XXXVI. The reaction of definite higher alkali sulfides with anhydrous formic acid

L67 ANSWER 51 OF 67 HCA COPYRIGHT 2008 ACS on STN
TI The chemistry of sulfur. XXXIV. The molar volumes and molar refractivities of the **sulfanes** and their dependence on chain length

L67 ANSWER 52 OF 67 HCA COPYRIGHT 2008 ACS on STN
TI Sulfur. XXVII. Molecular distribution in the condensation reaction between **sulfanes** and **halosulfanes**

L67 ANSWER 53 OF 67 HCA COPYRIGHT 2008 ACS on STN
TI Semimicrodetermination of sulfur in cystine and methionine

L67 ANSWER 54 OF 67 HCA COPYRIGHT 2008 ACS on STN
TI Metabolite analogs. IV. Preparation of some sulfur-containing benzimidazoles with substituents on the 4(7)- and 6(5)-positions

L67 ANSWER 55 OF 67 HCA COPYRIGHT 2008 ACS on STN
TI Chemistry of sulfur. XXII. The reaction between **sulfanes** H₂Sn and **chlorosulfanes** SmCl₂

L67 ANSWER 56 OF 67 HCA COPYRIGHT 2008 ACS on STN
TI Chemistry of sulfur. XVI. The nomenclature of chain type sulfur compounds

L67 ANSWER 57 OF 67 HCA COPYRIGHT 2008 ACS on STN
TI Semimicro method for determining sulfur in organic compounds

L67 ANSWER 58 OF 67 HCA COPYRIGHT 2008 ACS on STN
TI Synthesis of physiologically active compounds labeled with sulfur³⁵

L67 ANSWER 59 OF 67 HCA COPYRIGHT 2008 ACS on STN
 TI Intermediary sulfur metabolism. II. Cystine-balance experiments with Escherichia coli

L67 ANSWER 60 OF 67 HCA COPYRIGHT 2008 ACS on STN
 TI Some aspects of the action of sulfonamides. I. Binding of S35 labeled **sulfanilamide** by Escherichia coli

L67 ANSWER 61 OF 67 HCA COPYRIGHT 2008 ACS on STN
 TI The influence of small quantities of sulfur and cyanogen compounds on the velocity of oxidation of ferrous ions to ferric ions

L67 ANSWER 62 OF 67 HCA COPYRIGHT 2008 ACS on STN
 TI Biguanide derivatives

L67 ANSWER 63 OF 67 HCA COPYRIGHT 2008 ACS on STN
 TI Microdetermination of sulfur in organic molecules by the hydrogenation method. I. Microchemical determination of sulfur

L67 ANSWER 64 OF 67 HCA COPYRIGHT 2008 ACS on STN
 TI Sulfur studies. XVIII. Sulfonium derivatives of p-phenylphenacyl bromide

L67 ANSWER 65 OF 67 HCA COPYRIGHT 2008 ACS on STN
 TI Determination of sulfur in organic compounds by hydrogenation

L67 ANSWER 66 OF 67 HCA COPYRIGHT 2008 ACS on STN
 TI General method for determining sulfur in organic materials

L67 ANSWER 67 OF 67 HCA COPYRIGHT 2008 ACS on STN
 TI The determination of antimony in ores

=> D L67 55 BIB ABS HITSTR HITIND

L67 ANSWER 55 OF 67 HCA COPYRIGHT 2008 ACS on STN
 AN 50:27155 HCA Full-text
 OREF 50:5442e-g
 TI Chemistry of sulfur. XXII. The reaction between **sulfanes** H₂Sn and **chlorosulfanes** SmCl₂
 AU Feher, F.; Laue, W.; Kraemer, J.
 CS Univ. Cologne, Germany
 SO Zeitschrift fuer Anorganische und Allgemeine Chemie (1955), 281, 151-60
 CODEN: ZAACAB; ISSN: 0044-2313
 DT Journal
 LA Unavailable

AB cf. C.A. 49, 12169i. The ds., refractive indexes, viscosities at 20°, and surface tensions at 20° are given for SnCl₂ with n = 1, 2, 3, 4, 5.1, 7.5, and 14.2. The samples with n > 2 were not exhaustively purified. The mol. vol., mol. refraction, and parachor for SnCl₂ with n = 1, 2, 3, and 4, have approx. const. increments through the series. This suggests that the S atoms are equiv. and supports the suggested chain structure.

IT 7704-34-9, Sulfur
(chemistry of)

RN 7704-34-9 HCA

CN Sulfur (CA INDEX NAME)

S

CC 6 (Inorganic Chemistry)

IT **Hydrogen sulfides**
(reaction of H₂S_x with SmCl₂)

IT 7704-34-9, Sulfur
(chemistry of)

=> D L76 1-12 TI

L76 ANSWER 1 OF 12 HCA COPYRIGHT 2008 ACS on STN

TI Production of insoluble sulfur or soluble sulfur and insoluble sulfur mixture and/or their mixtures with hydrocarbon oil

L76 ANSWER 2 OF 12 HCA COPYRIGHT 2008 ACS on STN

TI A high capacity manganese-based sorbent for regenerative high temperature desulfurization with direct sulfur production. Conceptual process application to coal gas cleaning

L76 ANSWER 3 OF 12 HCA COPYRIGHT 2008 ACS on STN

TI A catalyst based on titanium and method for its preparation

L76 ANSWER 4 OF 12 HCA COPYRIGHT 2008 ACS on STN

TI Processing of municipal plastic wastes by gasification

L76 ANSWER 5 OF 12 HCA COPYRIGHT 2008 ACS on STN

TI Process for removing sulfur compounds

L76 ANSWER 6 OF 12 HCA COPYRIGHT 2008 ACS on STN

TI Process for purifying high-temperature reducing gases and composite power plant with coal gasification

L76 ANSWER 7 OF 12 HCA COPYRIGHT 2008 ACS on STN
 TI Processing of sulfate-containing wastewater

L76 ANSWER 8 OF 12 HCA COPYRIGHT 2008 ACS on STN
 TI Manufacture of catalysts for the conversion of **hydrogen sulfide** and/or sulfur dioxide, the catalysts obtained, and their use

L76 ANSWER 9 OF 12 HCA COPYRIGHT 2008 ACS on STN
 TI Removal of the halides in desorbed gas in boiler flue gas dry desulfurization

L76 ANSWER 10 OF 12 HCA COPYRIGHT 2008 ACS on STN
 TI The **Claus** process: thermodynamics of **sulphane** production

L76 ANSWER 11 OF 12 HCA COPYRIGHT 2008 ACS on STN
 TI Iron chloride activated oxidation of sulfide ores

L76 ANSWER 12 OF 12 HCA COPYRIGHT 2008 ACS on STN
 TI Reduction of metal sulfides occurring in a refining process

=> D L76 1,5,10 BIB ABS HITSTR HITIND

L76 ANSWER 1 OF 12 HCA COPYRIGHT 2008 ACS on STN
 AN 142:394502 HCA Full-text
 TI Production of insoluble sulfur or soluble sulfur and insoluble sulfur mixture and/or their mixtures with hydrocarbon oil
 IN Macho, Vendelin; Jurecek, Ludovit; Komora, Ladislav; Kavala, Miroslav; Jurecekova, Emilia; Vojdasova, Viera
 PA VUP, A. S., Slovakia
 SO Slovakia, 9 pp.
 CODEN: SLXXFO
 DT Patent
 LA Slovak

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	SK 283885	B6	20040406	SK 1998-1366	19981001
					01
				<--	
PRAI	SK 1998-1366		19981001	<--	

AB Insol. S or a mixt. of sol. S and insol. S and/or their mixts. with hydrocarbon oils are produced by using oxidn.-redn. reactions of low-mol. S compds. (e.g., CS₂, COS, H₂S) in the Claus process. After the partial combustion of the low-mol. S compds. or their mixts. with org. compds., a reaction gas with the SO₂/H₂S mol. ratio of 1:(2-2.5) is cooled to -10 to +50° and led to an aq. or aq.-alc. medium. Insol. S is withdrawn, ground and/or ground and formulated with oil and/or sol. S and/or insol. S. In another option, the molten S from the Claus process is held ≥3 min at 200-300°, modified with 0.1-1.5 wt.% stabilizer, and quenched by contacting a cooled surface at -30 to +30° or by charging into an aq. and/or colloidal soln. at -10 to +40°. After drying, the product is disintegrated and/or selectively extd. to remove sol. S, dried, disintegrated, and packaged and/or formulated with hydrocarbon oil. The method is suitable for liquidation of H₂S and other S compds. from hydrodesulfurization of petroleum fractions and residues. The insol. S is suitable as a vulcanization agent.

IT 7783-06-4, Hydrogen sulfide, reactions
(in prodn. of insol. sulfur or sol. sulfur and insol. sulfur mixt. and/or their mixts. with hydrocarbon oil)

RN 7783-06-4 HCA

CN Hydrogen sulfide (H₂S) (CA INDEX NAME)

H₂S

IT 7647-01-0, Hydrochloric acid, uses
(in prodn. of insol. sulfur or sol. sulfur and insol. sulfur mixt. and/or their mixts. with hydrocarbon oil)

RN 7647-01-0 HCA

CN Hydrochloric acid (CA INDEX NAME)

HCl

IT 7704-34-9F, Sulfur, preparation
(prodn. of insol. sulfur or sol. sulfur and insol. sulfur mixt. and/or their mixts. with hydrocarbon oil)

RN 7704-34-9 HCA

CN Sulfur (CA INDEX NAME)

S

IT 7782-50-5, Chlorine, uses
(stabilizer in prodn. of insol. sulfur or sol. sulfur and insol.
sulfur mixt. and/or their mixts. with hydrocarbon oil)
RN 7782-50-5 HCA
CN Chlorine (CA INDEX NAME)

C1-C1

IC ICM C01B017-02
CC 49-1 (Industrial Inorganic Chemicals)
Section cross-reference(s): 39, 51
ST insol sulfur prodn Claus process
IT 75-15-0, Carbon disulfide, reactions 463-58-1, Carbonyl sulfide
7446-09-5, Sulfur dioxide, reactions 7783-06-4,
Hydrogen sulfide, reactions
(in prodn. of insol. sulfur or sol. sulfur and insol. sulfur
mixt. and/or their mixts. with hydrocarbon oil)
IT 56-81-5, Glycerol, uses 57-55-6, Propylene glycol, uses 64-17-5,
Ethanol, uses 64-18-6, Formic acid, uses 64-19-7, Acetic acid,
uses 107-21-1, Ethylene glycol, uses 111-46-6, Diethylene
glycol, uses 7647-01-0, Hydrochloric
acid, uses 7664-38-2, Phosphoric acid, uses 7664-93-9,
Sulfuric acid, uses 7782-99-2, Sulfurous acid, uses 9002-89-5,
Polyvinyl alcohol 9004-34-6D, Cellulose, ether 25265-71-8,
Dipropylene glycol 25322-68-3, Polyethylene glycol
(in prodn. of insol. sulfur or sol. sulfur and insol. sulfur
mixt. and/or their mixts. with hydrocarbon oil)
IT 7704-34-9F, Sulfur, preparation
(prodn. of insol. sulfur or sol. sulfur and insol. sulfur mixt.
and/or their mixts. with hydrocarbon oil)
IT 57-11-4, Stearic acid, uses 7553-56-2, Iodine, uses 7726-95-6,
Bromine, uses 7782-50-5, Chlorine, uses 7791-25-5,
Sulfuryl chloride (SO₂Cl₂)
(stabilizer in prodn. of insol. sulfur or sol. sulfur and insol.
sulfur mixt. and/or their mixts. with hydrocarbon oil)

L76 ANSWER 5 OF 12 HCA COPYRIGHT 2008 ACS on STN
AN 119:209535 HCA Full-text
OREF 119:37211a,37214a
TI Process for removing sulfur compounds
IN Lowery, Richard E.; Engelbert, Donald R.

PA Phillips Petroleum Co., USA

SO U.S., 10 pp.
CODEN: USXXAM

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	US 5219542	A	19930615	US 1991-727780	19910710

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PRAI US 1991-727780 19910710 <--

AB S compds. including ~~H~~2S, SO2, COS, and CS2 are removed from S contaminated fluid streams using an absorption compn. contg. 60-90 ZnO, 10-30 zinc phosphate, and .ltorsim.30% by wt. alumina. The absorption compn. also contains an acid selected from the group consisting of HNO3, AcOH, H2SO4, and ~~H~~Cl. The process is suitable for the recovery of S from a Claus plant effluent.

IT 7647-01-0, Hydrochloric acid, uses
(absorbent contg., for sulfur compd. removal from contaminated fluid streams)

RN 7647-01-0 HCA

CN Hydrochloric acid (CA INDEX NAME)

HCl

IT 7704-34-9D, Sulfur, compds. 7783-06-4,
Hydrogen sulfide (H2S), miscellaneous
(removal of, from contaminated fluid streams, by absorption, with zinc oxide and zinc phosphate and alumina contg. compn.)

RN 7704-34-9 HCA

CN Sulfur (CA INDEX NAME)

S

RN 7783-06-4 HCA

CN Hydrogen sulfide (H2S) (CA INDEX NAME)

H₂S

IC ICM C01B017-16
ICS C01B031-20; C01B017-20; B01J008-00
INCL 423230000
CC 59-4 (Air Pollution and Industrial Hygiene)
Section cross-reference(s): 49
IT 10103-46-5, Calcium phosphate 64-19-7, Acetic acid, uses
~~7647-01-0, Hydrochloric acid, uses~~
7664-93-9, Sulfuric acid, uses 7697-37-2, Nitric acid, uses
(absorbent contg., for sulfur compd. removal from contaminated
fluid streams)
IT 75-15-0, Carbon sulfide (CS₂), miscellaneous 463-58-1, Carbonyl
sulfide 7446-09-5, Sulfur dioxide, miscellaneous
~~7704-34-9D, Sulfur, compds. 7783-06-4,~~
~~Hydrogen sulfide (H₂S), miscellaneous~~
(removal of, from contaminated fluid streams, by absorption, with
zinc oxide and zinc phosphate and alumina contg. compn.)

L76 ANSWER 10 OF 12 HCA COPYRIGHT 2008 ACS on STN
AN 88:24975 HCA Full-text
OREF 88:3999a,4002a
TI The **Claus** process: thermodynamics of **sulphane**
production
AU Kerr, Richard K.; Berlie, E. M.
CS West. Res. and Dev. Ltd., Calgary, AB, Can.
SO Energy Processing/Canada (1977), 69(6), 48-51
CODEN: EPCADS; ISSN: 0319-5759
DT Journal
LA English
AB The thermodyn. are discussed of **sulfane** (H₂S_x) formation in **Claus**
plants for reaction furnaces, catalytic converters, and S condensers.
Equil. formation of H₂S_x in the system followed by its dissoln. in
condensed S downstream is sufficient to account for concns. of
≤14,000 ppm H₂S_x dissolved in S.
IT ~~7704-34-9P~~, preparation
(manuf. of, thermodyn. of **sulfane** formation in)
RN 7704-34-9 HCA
CN Sulfur (CA INDEX NAME)

S

CC 49-1 (Industrial Inorganic Chemicals)
Section cross-reference(s): 69
ST **sulfane** formation **Claus** process
IT 50864-71-6P
(formation of, thermodyn. of, in **Claus** process)
IT **7704-34-9P**, preparation
(manuf. of, thermodyn. of **sulfane** formation in)

=> D L82 1-18 TI

L82 ANSWER 1 OF 18 HCA COPYRIGHT 2008 ACS on STN
TI Effectiveness of natural treatment in a wastewater irrigation district of the Mexico City region: a synoptic field survey. [Erratum to document cited in CA132:112301]

L82 ANSWER 2 OF 18 HCA COPYRIGHT 2008 ACS on STN
TI Effectiveness of natural treatment in a wastewater irrigation district of the Mexico City region: a synoptic field survey

L82 ANSWER 3 OF 18 HCA COPYRIGHT 2008 ACS on STN
TI Gasification as an alternative method for the destruction of **sulfur** containing **waste** (ChemChar process)

L82 ANSWER 4 OF 18 HCA COPYRIGHT 2008 ACS on STN
TI Sulchem process for treatment of chemical weapons-related wastes

L82 ANSWER 5 OF 18 HCA COPYRIGHT 2008 ACS on STN
TI Determination of organically bound **sulfur** in **waste** samples

L82 ANSWER 6 OF 18 HCA COPYRIGHT 2008 ACS on STN
TI Oxygen bomb combustion ion chromatography for elemental analysis of heteroatoms in fuel and wastes development

L82 ANSWER 7 OF 18 HCA COPYRIGHT 2008 ACS on STN
TI Methodology for selecting substances for the National Exposure Registry

L82 ANSWER 8 OF 18 HCA COPYRIGHT 2008 ACS on STN
TI Pesticide chemicals manufacturing category effluent limitations guidelines, pretreatment standards, and new source performance standards

L82 ANSWER 9 OF 18 HCA COPYRIGHT 2008 ACS on STN
TI Determination of the content of noxious oxides in cement industry

waste gases

- L82 ANSWER 10 OF 18 HCA COPYRIGHT 2008 ACS on STN
TI Development of a thermal stability-based ranking of hazardous organic compound incinerability
- L82 ANSWER 11 OF 18 HCA COPYRIGHT 2008 ACS on STN
TI Odorant for generator gas
- L82 ANSWER 12 OF 18 HCA COPYRIGHT 2008 ACS on STN
TI Purification of wastewater from thiokol production
- L82 ANSWER 13 OF 18 HCA COPYRIGHT 2008 ACS on STN
TI Recovery of sulfuric acid in waste acid
- L82 ANSWER 14 OF 18 HCA COPYRIGHT 2008 ACS on STN
TI Preparation of commercially important organic sulfur compounds from pulp industry waste products
- L82 ANSWER 15 OF 18 HCA COPYRIGHT 2008 ACS on STN
TI Colorimetric determination of hydrogen sulfide and methanethiol in industrial effluents
- L82 ANSWER 16 OF 18 HCA COPYRIGHT 2008 ACS on STN
TI Improvement of methods of collecting sulfate turpentines and **Sulfan**
- L82 ANSWER 17 OF 18 HCA COPYRIGHT 2008 ACS on STN
TI Removing and recovering **sulfur** dioxide from **waste** gases
- L82 ANSWER 18 OF 18 HCA COPYRIGHT 2008 ACS on STN
TI Sulfur determination in sulfite waste liquor and organic compounds. Potassium permanganate method